

WSR-88D MODIFICATION NOTE 37
(For Electronics Technicians)

- SUBJECT** : Retrofit of the RDA pedestal to install a front end electromagnetic interference (EMI) filter, and inspection/replacement of the receiver protector.
- PURPOSE** : To install an EMI preselect bandpass filter in the radar pedestal between the receiver protector and the low noise amplifier, and to inspect/replace the receiver protector.
- EQUIPMENT AFFECTED** : Radar Data Acquisition (RDA) Group.
- PARTS REQUIRED** : The following parts make up the kit(s) for this modification:

Single Thread System

<u>Nomenclature</u>	<u>Part No.</u>	<u>NSN</u>	<u>QTY</u>
Bracket, Filter	2310003-301	5340-01-437-0675	01
Bracket, Low Noise Amp	2100000-101	5340-01-436-8717	01
Cable Assy, 2W900	2200011-201	5995-01-436-8722	01
Adapter, Conn, Coax, RF	M55339/05-00057	5935-00-539-0851	01
Screw, Cap, Hex HD, CRE	MS35308-305	5305-00-688-2020	100
Washer, Lock-Spring	MS35338-139	5310-00-933-8121	100
Washer, Flat	MS15795-810	5310-00-582-5677	100
Screw, Machine Pan	MS51958-64	5305-00-059-3660	100
Washer, Lock-Spring	MS35338-138	5310-00-933-8120	100
Washer, Flat	MS15795-808	5310-00-619-1148	100
Screw, Machine Pan	MS51957-23	5305-00-054-5657	100
Washer, Flat	MS15795-803	5310-00-595-6211	100
Washer, Lock-Spring	MS35338-135	5310-00-933-8118	100
Nut, Plain, Hexagon	MS35649-244	5310-00-934-9748	100
Filter, Preselect Bandpass	2200010-xxx (site dependent on frequency used, see effectivity attachment 2)		

PARTS REQUIRED (Continued)

Redundant System

<u>Nomenclature</u>	<u>Part No.</u>	<u>NSN</u>	<u>QTY</u>
Bracket, Filter	2310003-301	5340-01-437-0675	01
Bracket, Filter	2310003-302	5340-01-437-0677	01
Bracket, Low Noise Amp	2100000-101	5340-01-436-8717	01
Bracket, Low Noise Amp	2100000-102	5340-01-436-8720	01
Cable Assy, 2W900	2200011-201	5995-01-436-8722	01
Cable Assy, 2W901	2200011-202	5995-01-436-8723	01
Adapter, Conn, Coax, RF	M55339/05-00057	5935-00-539-0851	02
Screw, Cap, Hex HD, CRE	MS35308-305	5305-00-688-2020	100
Washer, Lock-Spring	MS35338-139	5310-00-933-8121	100
Washer, Flat	MS15795-810	5310-00-582-5677	100
Screw, Machine Pan	MS51958-64	5305-00-059-3660	100
Washer, Lock-Spring	MS35338-138	5310-00-933-8120	100
Washer, Flat	MS15795-808	5310-00-619-1148	100
Screw, Machine Pan	MS51957-23	5305-00-054-5657	100
Washer, Flat	MS15795-803	5310-00-595-6211	100
Washer, Lock-Spring	MS35338-135	5310-00-933-8118	100
Nut, Plain, Hexagon	MS35649-244	5310-00-934-9748	100
Filter, Preselect Bandpass	2200010-xxx (site dependent on frequency used, see effectivity attachment 2)		

MOD PROCUREMENT : Kits will be requisitioned by the Operational Support Facility, Logistics Section, and shipped at no cost to the affected sites from the National Logistics Supply Center (NLSC).

SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED : None.

TIME REQUIRED : 1.5 staff-hours per EMI filter installation.
1.0 staff-hours per receiver protector replacement.

EFFECT ON OTHER INSTRUCTIONS : NWS EHB 6-501, dated 1 Aug 96
NWS EHB 6-510, dated 1 May 96

AUTHORIZATION STATEMENT : The authority for this modification is ECP F0032R00A00.

VERIFICATION STATEMENT : This modification was successfully tested at WSFO Phoenix, Arizona, and WSO Flagstaff, Arizona.

GENERAL

The installation of the EMI preselect bandpass filter in the radar pedestal between the receiver protector and the low noise amplifier will reduce the system susceptibility to interference from external sources. Also, inspect the receiver protector for an optional flange. The optional flange on some receiver protectors will not allow the EMI filter bracket to fit properly.

Retain old low noise amplifier mounting bracket(s) and fasteners. If the new filter fails, the radar can be brought back to its original configuration.

For additional information concerning this modification note, contact the Operational Support Facility, System Support Branch, Norman, Oklahoma; telephone number 405-366-6540 x3229.

PROCEDURE

See attachment 1. Redundant sites will install 2 EMI filters.

EFFECTIVITY

See attachment 2.

REPORTING MODIFICATION

Target date for completion of this modification is 60 days after receipt of modification note and parts. Report completed modification on WS Form A-26, Engineering Management Reporting System Maintenance Record, according to instructions in EHB-4, Part 2. Use reporting code RDA. Also, record the modification number in block 17(a) as 37 (see attachment 4 for a completed sample of WS Form A-26).

In addition, complete attachment 3 and fax, mail, or E-mail information to:

Mail address: System Support Branch, Logistics Section
Operational Support Facility
3200 Marshall Avenue, Suite 101
Norman, Oklahoma 73072-8028

Fax number: 405-366-6553

E-mail address: logistics@osf.noaa.gov

//SIGNED//
John McNulty, Chief
Engineering Division

//SIGNED//
James D. Belville, Director
Operational Support Facility

EHB-6
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